

AMENDMENT TO THE CLAIMS:

1-10. (Canceled)

11. (Currently Amended) An evaporator comprising:

at least a first heat exchanger and a second heat exchanger for top loading of a medium to be concentrated;

~~wherein means for heating each of said heat exchangers is heated in cross stream by vapors having different compositions and different pressures;~~

means for separately discharging said medium concentrated and exhaust vapors generated after escaping from said heat exchangers;

a medium distributor common for all of said heat exchangers for feeding said medium to be concentrated;

~~wherein means for feeding the medium escaping from said first heat exchanger is directly fed to the second heat exchanger;~~

means for discharging the medium from the second heat exchanger thereby separating said medium from said exhaust vapors;

a first common dividing wall for separating a space for said exhaust vapors from steam spaces of the heat exchangers; and

a second dividing wall between said heat exchangers separating said steam spaces and/or turning chambers of the heat exchangers from each other. /

12. (Currently Amended) The evaporator as set forth in claim 11 further comprising a separated conduit provided for each of said heat exchangers for separately discharging ~~condenses condensates~~ of the heat exchangers that are received by condensing said vapors in said heat exchangers. /

13. (Previously Presented) The evaporator as set forth in claim 11 wherein the heat exchangers are made of different materials. /

14. (Previously Presented) The evaporator as set forth in claim 11 further comprising:
means for heating said first heat exchanger by exhaust vapors; and
means for heating said second heat exchanger by turbine steam.